

Abstract of the Disclosure

The present invention provides a method of initializing shared memory in a multinode system. The method includes building a local address space in each of a plurality of nodes and exporting the local address space from each of the plurality of nodes to a Remote Translation Table (RTT) in each of the plurality of nodes. The present invention further provides system including a plurality of nodes, each node having one or more processors and a memory controller operatively coupled to the one or more processors, wherein the memory controller includes a RTT for holding translation information for an entire virtual memory address space for the node, further wherein the RTT is initialized upon the start of a process by building a local address space in the node, and exporting the local address space from the node to a RTT in each of the plurality of other nodes.